

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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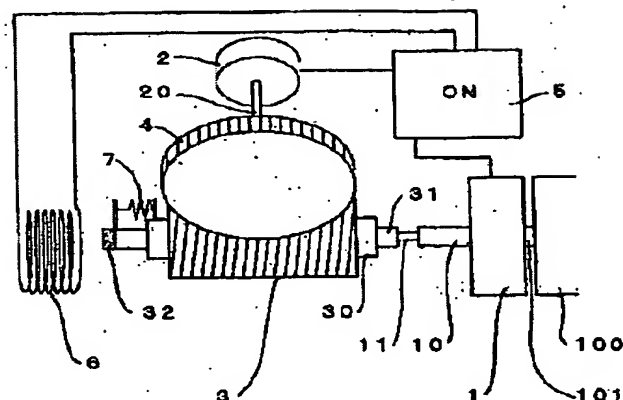
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F16H 55/22 G01B 7/30 G01D 5/12  
H02K 49/10

TITLE : MULTI-ROTATION TYPE ABSOLUTE  
VALUE ENCODER AND ITS MULTI-  
ROTATION DETECTION METHOD



1	第1の絶対値エンコーダ	4	第2の歯車
10	第1の絶対値エンコーダの回転軸	6	ソレノイドコイル
11	延長軸	7	弾性体
2	第2の絶対値エンコーダ	100	モータ
20	第2の絶対値エンコーダの回転軸	101	被測定回転軸
3	第1の歯車		
30	中空回転軸		
31	可動軸		
32	磁性体		

ABSTRACT : PROBLEM TO BE SOLVED: To provide a multi-rotation type absolute value encoder and its multi- rotation detection method capable of detecting the multi-rotation quantity during power trip without using an external battery.

SOLUTION: The multi-rotation type absolute value encoder comprises a first absolute value encoder 1, a second absolute value encoder 2, a second gear 4 connected to the rotational shaft 20 of the second absolute encoder 2, a first gear 3 connected to the second gear 4 and a signal processing circuit for detecting multi-rotation absolute angle signals from the output signals of the first absolute value encoder 1 and the second absolute value encoder 2. A moving mechanism is attached to the rotation shaft 10 of the first absolute value encoder 1 or the first gear 3 so that the rotation shaft 10 of the first absolute value encoder 1 and the first gear 3 can be in either of connected state and unconnected state.

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